AMENDMENTS TO THE CLAIMS

1 – 5   (Cancelled).

6.   (Currently Amended)   A ~~computer implemented~~ method of detecting privilege escalation
vulnerabilities in a pre-existing source code listing, said source code listing having a listed sequence
of expressions, each expression including a set of operands and operators to transform values of the
operands, said source code listing further having routine calls, said routine calls including
arguments with which to invoke a routine, said source code listing being stored in computer
readable medium having computer executable instructions, wherein a privilege escalation
vulnerability is an uncontrolled escalation of system privileges that allows unauthorized access to
system resources, the ~~computer implemented~~ method comprising:

> ~~executing computer instructions to provide~~ providing a list specifying routines that
> potentially cause privilege escalation vulnerabilities;

> ~~executing computer instructions to provide~~ providing pre-specified ranges of
> values for arguments of routines in the list that cause privilege escalation
> vulnerabilities;

> ~~executing computer instructions to analyze~~ analyzing the source code listing to identify
> calls to routines specified in the list;

> ~~executing computer instructions to analyze~~ analyzing the source code listing to
> semantically analyze arguments of the identified routine calls to determine routine
> calls that possess privilege escalation vulnerabilities using the pre-specified ranges
> of values; and

> ~~executing computer instructions to generate~~ generating a report that identifies the
> vulnerabilities.

7.   (Currently Amended) The method of claim 6 wherein ~~executing computer instructions to~~
semantically ~~analyze~~ analyzing the arguments of the identified routine calls comprises analyzing the

source code listing to create computer models of the arguments, each model specifying a range of values that each corresponding argument can take when the source code listing is executed, ~~said argument models being stored in computer memory~~.

8.   (Currently Amended) The method of claim 7, wherein analyzing the source code listing to create computer models of the arguments comprises:

        analyzing the source code listing to create computer models of said operands, each of said operand models specifying a range of values of each corresponding operand as a result of operand transformations expressed in the source code listing, ~~said models being stored in computer memory~~; and

        using the operand models to create the argument models.

9-11   (Cancelled).